

20020603.qrp v02_n575.qrl.20020603

Date: Mon, 3 Jun 2002 19:03:12 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2575

QRP-L Digest 2575

Topics covered in this issue include:

- 1) [127644] Re: FS: LDG QRP Tuner Board and Remote Tuning Head
by "William Phinizy" <k6whp@gte.net>
- 2) [127645] Re: fishing for opinions
by "George, W5YR" <w5yr@att.net>
- 3) [127646] Etching Solution PCBs..how to handle it?
by ve3ab@mail.mondenet.com
- 4) [127647] Re: fishing for opinions
by baltimoremd@baltimoremd.com
- 5) [127648] Updates on the W7ZOI web page
by Mike Czuhajewski <wa8mcq@comcast.net>
- 6) [127649] Found at FIDM
by RLemmel@aol.com
- 7) [127650] Re: fishing for opinions
by David Hinerman <wd8civ@worldnet.att.net>
- 8) [127651] Re: Etching Solution PCBs..how to handle it?
by "Brad Hernlem" <alihernlem@hotmail.com>
- 9) [127652] ZM-2 enclosures
by "Michael N4NMR" <bowerm@ix.netcom.com>
- 10) [127653] SW-20+ RIT mods
by "Ian Wilson" <ianmwilson@earthlink.net>
- 11) [127654] Re: [ZM-2 enclosures]
by "P.Ermisch" <ermisch@usa.net>
- 12) [127655] RE: ZM-2 enclosures
by Conrad Weiss <radman@best.com>
- 13) [127656] Re: Etching Solution PCBs..how to handle it?
by "Leon Heller" <leon_heller@hotmail.com>
- 14) [127657] Re: fishing for opinions
by K1VP <k1vp@grizzly.com>
- 15) [127658] N4JS
by W2AGN <w2agn@w2agn.net>
- 16) [127659] Re: Etching Solution PCBs..how to handle it?
by Alex <kr1st@amsat.org>
- 17) [127660] Re: Want to buy Super Antennas MP-1 TRPD Tripod Base
by "Rod N0RC" <rod@n0rc.com>
- 18) [127661] Re: fishing for opinions
by Ed Lawson <k1vp@grizzly.com>
- 19) [127662] FS

- by "johngabbard" <johngabbard@usintouch.com>
- 20) [127663] Looking for old handbook
by "Tom" <kf4yyd@adelphia.net>
- 21) [127664] Open air feeder impedance
by Tim O'Rourke <TO'Rourke@KaiserFT.com>
- 22) [127665] QRP+ PSK
by "=?iso-8859-1?B?TthCUw==?=" <n0bs@msn.com>
- 23) [127666] Re: Open air feeder impedance
by "Ingo, DK3RED" <dk3red@t-online.de>
- 24) [127667] Help with mystery parts?
by dmaliniak@penton.com
- 25) [127668] New PSK-10 from SWL A.O.K. (commentary and opinion)
by Ken Hopper <khopper@uchicago.edu>
- 26) [127669] Re: Open air feeder impedance
by "Ingo, DK3RED" <dk3red@t-online.de>
- 27) [127670] Lobstercon!! & Ft. Tuthill
by "Doug Hendricks" <ki6ds@dph.dpol.net>
- 28) [127671] Re: Open air feeder impedance
by "Ingo, DK3RED" <dk3red@t-online.de>
- 29) [127672] RE: Lobstercon!! & Ft. Tuthill
by "AI2Q Alex" <ai2q@adelphia.net>
- 30) [127673] RE: Lobstercon!! & Ft. Tuthill
by David Hinerman <WD8CIV@worldnet.att.net>
- 31) [127674] Re: Lobstercon!! & Ft. Tuthill
by "Doug Hendricks" <ki6ds@dph.dpol.net>
- 32) [127675] Opinion?
by "johngabbard" <johngabbard@usintouch.com>
- 33) [127676] Re: PCB Etching Bubble Bath
by George Gingell <k3tks@u1.abs.net>
- 34) [127677] RE: Open air feeder impedance
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 35) [127678] Re: N4JS
by "Oleg V. Borodin" <master72@lipetsk.ru>
- 36) [127679] Design of NorCal-20
by "Oleg V. Borodin" <master72@lipetsk.ru>
- 37) [127680] RE: Open air feeder impedance
by David Hinerman <WD8CIV@worldnet.att.net>
- 38) [127681] RE: Open air feeder impedance
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 39) [127682] Re: PCB Etching Bubble Bath
by "Pederson, Glenn" <gpeder@elnet.com>
- 40) [127683] Re: PCB Etching Bubble Bath
by Jim Crooke <crooke@prodigy.net>
- 41) [127684] Atlanticon Photo Album now online
by "George Heron N2APB" <n2apb@erols.com>
-

Date: Sun, 2 Jun 2002 16:04:34 -0700
From: "William Phinizy" <k6whp@gte.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [127644] Re: FS: LDG QRP Tuner Board and Remote Tuning Head
Message-ID: <003a01c20a89\$dd6b76c0\$2b60e043@k6whp>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

These have been sold. Steve, WB6TNL, was the lucky claimant. My thanks
(and apologies) to all who responded.

72,

Bill

Date: Sun, 02 Jun 2002 19:20:57 -0500
From: "George, W5YR" <w5yr@att.net>
To: WD8CIV@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [127645] Re: fishing for opinions
Message-ID: <3CFAB669.5E671342@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

See what applications that you want to run are available for each platform
. . . .

An upgrade to Windows 98 Second Edition is recommended if you decide to
stay with Windows. W95 is OK and that is what I run on my old laptop, but
98SE is better. Again, the availability of applications is the decision
maker.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

David Hinerman wrote:

>

> Folks,

>
> I recently purchased a used laptop for ham radio use. When I ordered it,
> the Web site said it came without an operating system. I intended to put
> Linux on it.
>
> Now that it's arrived, I find it has Windows 95 already on it.
>
> Should I leave the Win 95, or replace it with Linux?

Date: Sun, 2 Jun 2002 20:34:59 +0000
From: ve3ab@mail.mondenet.com
To: qrp-1@Lehigh.edu
Subject: [127646] Etching Solution PCBs..how to handle it?
Message-ID: <200206030035.g530Zpw09723@genesis.dmz.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Ive read and kept copies of recent posts re: bubble stone for etching solution. Im curious..how many times can you use the solution? ie.. for 1 or 2 boards or say 10 boards?..Eventually..the ferric chloride will become saturated and will lose its ability. What do you do with the etchant? >>i live in the country so im not on city services. I wonder ..could i just bury it somewhere?
Another question..Ive used the resist ink pens for the few projects ive done so far. In a 73 magazine article (not too long ago) a chap uses nail polish..is there a significant advantage?72 Earl VE3AB

Date: Sun, 2 Jun 2002 21:35:17 -0400 (EDT)
From: baltimoremd@baltimoremd.com
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [127647] Re: fishing for opinions
Message-ID: <20020602213322.N43578-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 2 Jun 2002, George, W5YR wrote:

> See what applications that you want to run are available for each platform
> . . .
>
> An upgrade to Windows 98 Second Edition is recommended if you decide to

> stay with Windows. W95 is OK and that is what I run on my old laptop, but
> 98SE is better. Again, the availability of applications is the decision
> maker.

Ah...one needs to consider the available memory and hard drive space, as
WIN98_anything needs more resources than WIN95_anything.

Also, some laptops may have hardware in them that Linux doesn't support
easily.

73
Thom
k3hrn

baltimoremd@baltimoremd.com
<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring
and Drake Mail List Pages

Date: Sun, 02 Jun 2002 21:49:54 -0400
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Cc: wa8mcq@comcast.net
Subject: [127648] Updates on the W7ZOI web page
Message-ID: <002d01c20aa0\$f56865a0\$33333044@gambrl01.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

For those who haven't looked at the W7ZOI web page recently, there are a few
new things. The URL is

<http://www.easystreet.com/~w7zoi/>

Back in November, he added a correction to chapter 7 of his Introduction to
Radio Frequency Design, which was reprinted by the ARRL several years ago.
(Considering some of the math in that area of the book, an error would
easily go unnoticed by the vast majority of us!)

In April of this year he added an article titled An Easily Built VHF
Bandpass Filter. Although the particular unit described was built for 260
MHz, he says it can be easily extended to any frequency from 30 to 300 MHz
and even higher.

For fans of the spectrum analyzer that he and Terry White described in QST a few years back, there's a new IF and log amplifier. He uses a pair of chips from Analog Devices.

Wes used to have a lot of details about that project on his web page. He removed them some time ago, but the info is still available on the Kanga US web page, courtesy of Bill Kelsey, N8ET. (Bill sells items to make the analyzer.) The URL for that is

http://www.bright.net/~kanga/kanga/w7zoi_sa.htm

Wes indicates that the original spectrum analyzer articles from QST (2 parts) are now available on the ARRL web page. His page says to go to the ARRL site and search on "spectrum analyzer." I did that, and here's where the two articles currently reside:

<http://www.arrl.org/tis/info/pdf/9808035.pdf>

<http://www.arrl.org/tis/info/pdf/9809037.pdf>

I'd be surprised if there is anyone who hasn't heard of PDF files by now, but in case there is, it's Portable Document Format, and created by Adobe Acrobat software. The idea is to have a relatively universal format that can be read by different types of operating systems; a single file can be viewed by many different types of computers. To view something in PDF you have to have the appropriate viewer software for your computer, which is widely available for free; just download the version for your operating system and you can view all the PDF files in the world. It's available for Windows plus MAC, UNIX and others.

I just checked the download site, and the current version is 5.0, which surprised me a bit; I thought 4.0 was still current. Even if you already have an Acrobat reader on your computer, it never hurts to keep it updated since there could be backward compatibility issues. I remember how several years ago I couldn't read a PDF file and found out that it was created with Acrobat version 3.0. My reader was 2.0 and couldn't touch the newer file.

You can find the reader downloads at

<http://www.adobe.com/products/acrobat/readstep2.html>

Finally, the June 2001 issue of QST had an RF power meter article coauthored by Wes and Bob Larkin, W7PUA. The page has a section on that, and just a few days ago he added another article to it titled Application Hints for the Power Meter. Like everything else on his web site, it has lots of good info.

73 and queue our pea DE WA8MCQ

Date: Sun, 2 Jun 2002 22:33:18 EDT
From: RLemmel@aol.com
To: qrp-l@lehigh.edu
Subject: [127649] Found at FDIM
Message-ID: <41.1e0138ed.2a2c2f6e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I realize this is rather late but I hope I can reunite someone with some lost items from FDIM. I found these items in one of the back meeting rooms at the Ramada late in the evening. None of the few people in the room had any knowledge of the owner. I had intended to have an announcement made at the banquet but in true SOC fashion I forgot.

There were three items together: A small PA kit, a manual for a transceiver, and a bottle of ?. If you can describe these items to me we can make arrangements to get your possessions back to you. Please respond direct.

72-Randy,WV9N

Date: Sun, 02 Jun 2002 22:47:19 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [127650] Re: fishing for opinions
Message-ID: <3.0.6.32.20020602224719.00799120@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:35 PM 6/2/02 -0400, you wrote:

>On Sun, 2 Jun 2002, George, W5YR wrote:

>

>> See what applications that you want to run are available for each platform

>> . . .

>>

>> An upgrade to Windows 98 Second Edition is recommended if you decide to
>> stay with Windows. W95 is OK and that is what I run on my old laptop, but
>> 98SE is better. Again, the availability of applications is the decision

>> maker.
>
>Ah...one needs to consider the available memory and hard drive space, as
>WIN98_anything needs more resources than WIN95_anything.
>
>Also, some laptops may have hardware in them that Linux doesn't support
>easily.

Thom,

This particular beast - a Dell Latitude XPi CD - seems pretty "vanilla." It has a 2.1GB hard drive (IDE I believe), 48MB RAM, ESS sound system (similar to my ancient dirt-cheap ISA sound card, which my equally ancient Slackware Linux does okay with), CD-ROM, floppy, SGVA screen, and I've just added a PCMCIA modem (courtesy of a dealer at the Rochester hamfest).

The part I'm not sure about is the IrDA port. I also have a Palm handheld, and it'd be nice to be able to link the two using IR occasionally. I have some Palm applications in mind, and I know there's a Linux-based Palm development environment, but I've never looked at Linux's IR capabilities.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 03 Jun 2002 03:09:04 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: ve3ab@mail.mondenet.com
Cc: qrp-l@lehigh.edu
Subject: [127651] Re: Etching Solution PCBs..how to handle it?
Message-ID: <F19971MnVMGLTtLyPWC0000331c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

ve3ab@mail.mondenet.com asks:
>Another question..Ive used the resist ink pens for the few projects ive
>done so far. In a 73 magazine article (not too long ago) a chap uses nail
>polish..is there a significant advantage?72 Earl VE3AB

Earl,

I use finger nail polish and find that it is an excellent etch resist and handy with the little brush. I use it mainly to cover large areas that I don't want etched but it also works great for making random pads for surface mount hacking. I also use it to repair bad traces using my usual method ... toner transfer. For that method I have had excellent luck with glossy magazine paper. I simply recycle old magazines or trade journals and use the glossy sheets run through my laser printer. I use Eagle from Cadsoft for the board layout and then print on the paper, transfer with a hot iron (be sure to clean and scour the copper WELL beforehand to promote good adhesion), soak off the paper with cool water (give lots of time ... be patient), do any repairs or broad coverage with nail polish and then etch. When finished, clean off with MEK (methyl ethyl ketone) or acetone and scrub again with Scotch Brite or similar pad. Finally, I tin my boards by smearing paste rosin flux all over and dragging a hot iron with a dab of solder all over the board.

I absolutely HATE resist pens. Too much etch through.

As to lifetime of etchant, the bottles usual give a number to estimate but I reuse the solution many times. Eventually the rate of etching becomes very slow and I know it is time to replace.

If I were going to try to dispose of the stuff as you indicate, I would first nuetralize it with calcium carbonate or something like that. That will nuetralize the acidity and cause the copper and residual iron to come out of solution. But best to check with your local authorities. Maybe they have a hazardous waste collection facility somewhere nearby or other advice.

Brad

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Sun, 2 Jun 2002 23:46:25 -0400
From: "Michael N4NMR" <bowerm@ix.netcom.com>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [127652] ZM-2 enclosures
Message-ID: <NGBBJFCEKMGKMF0FBLACELMCKAA.bowerm@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi, folks,

I have the ever popular ZM-2 antenna tuner that I built based on the standard instructions and using the supplied enclosure.

I've never liked the enclosure in that I don't like the coax coming into the top and going out of the top as it makes it unstable. This is NO reflection on the product, just my curmudgeon-ness showing.

I'm considering putting the device into a different type case - probably something that allows for the controls on the front side and the connections on the back. This would be similar to the layout of the case of the BLT tuner from NJQRP.

Since I don't know that much about what I'm doing regarding the theory behind the workings of the ZM-2 and the way it is designed, I would appreciate any ideas you folks might have on putting it into a different enclosure and also what traps I should avoid. I do remember something about it getting fairly warm inside so having a case that is just barely large enough for the components is not a good idea. But that is all that I know.

Thanks in advance.

Michael N4NMR

While I'm here, I'd just like to say "thank you" to all of you on the list. I certainly wouldn't be where I am today in ham radio if it hadn't been for this wonderful group of people. Yes, we go off tangents sometimes and we have some rather bizarre discussions. But even those add to the enjoyment of the hobby. I just hope someday I can contribute to the group rather than taking so much. Maybe someday I can be the collective "elmer" that all of you have been. Thank you.

Michael

Date: Sun, 2 Jun 2002 21:28:04 -0700
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [127653] SW-20+ RIT mods
Message-ID: <000a01c20ab7\$0e007880\$0b02a8c0@0020115492>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Could someone point me at the RIT mod for the SW-20+? I have downloaded the back issues of '72' so if there's an article in there, year & month would be sufficient.

73,

--ian k3imw/6

Date: Mon, 03 Jun 2002 00:47:20 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: <qrp-1@Lehigh.EDU>
Subject: [127654] Re: [ZM-2 enclosures]
Message-ID: <20020603064720.1826.qmail@uwdvg003.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

"Michael N4NMR" <bowerm@ix.netcom.com> wrote:

> Hi, folks,
> =

> I have the ever popular ZM-2 antenna tuner that I built based on the
> standard instructions and using the supplied enclosure.
> =

> I've never liked the enclosure in that I don't like the coax coming into
the
> top and going out of the top as it makes it unstable. This is NO
reflection
> on the product, just my curmudgeon-ness showing.

Agree. I put mine into a BUD 'converta' box #CU-341-A. About 3x4x1.5 inches.

I'll post a link to a picture someplace in the next couple of days.

> =

> I'm considering putting the device into a different type case - probably
> something that allows for the controls on the front side and the

connections

> on the back. This would be similar to the layout of the case of the BL=

T

> tuner from NJQRP.

> =

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> behind the workings of the ZM-2 and the way it is designed, I would

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t

> enclosure and also what traps I should avoid. I do remember something

> it getting fairly warm inside so having a case that is just barely larg=

e

> enough for the components is not a good idea. But that is all that I k=

now.

<stuff deleted>

It was a little tight stuffing everything in but I've had no trouble with=

heat

or tuning anywhere between 80 and 10 meters. I even crammed in dummy loa=

d 'a

la N5FC' (<http://www.io.com/~n5fc/dummy2.htm>). The only 'problems' are v=

ery

minor: the LED as I installed it with the grommet has a fairly narrow vi=

ewing

angle and I need to be looking practically straight down on it to see the=

null; the tuning caps don't seem to sit flat to the enclosure so the knob=

s,

when view from the side, are not perfectly parallel to the cover.

After using it for some time, I damaged one of the tuning caps (either to=

o

much power or turned the knob too far) and had to replace it. It was a l=

ittle

tricky because of the small case but was easily done. You may want to

consider that aspect in your implementation.

Since I use mine in portable situations as well as the shack so there's a=

bit

of foam and hot glue holding things together inside.

More than half the total project time was in redesigning the label on the=

computer and laser printer. That was a real pain but the end result was =

very

nice. I've been planning on explaining the process and materials on a fu=

ture

website - perhaps this is a good time to go through with it. If you don't

care about the labeling, then using another enclosure is pretty easy. I wanted a good looking piece of equipment so the majority of my time went into making that so.

Paul KB0LUR

Date: Mon, 3 Jun 2002 00:11:58 -0700
From: Conrad Weiss <radman@best.com>
To: "'Michael N4NMR'" <bowerm@ix.netcom.com>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [127655] RE: ZM-2 enclosures
Message-ID: <01C20A93.47658120@209-162-48-203.thegrid.net>

Michael & the gang,

I've built several atus that are similar to the ZM-2 and BLT. I've also built the ZM-2 & BLT, and have found them to be excellent performers. From a packaging perspective, I haven't found anything "unusual" in working with the ZM-2. It's a pretty forgiving design and, can be repackaged in "BLT fashion" or in a number of other ways, such as:

In a project box - something from Ten-Tec's line of boxes works well, if you prefer a pre-formed metallic box - ready to go - just drill the holes. Cast aluminum Bud boxes are another way to go. They're really "crunch-proof" enclosures that will take some rugged use if you want to drag your atu around the outdoors. For ideas, check out the following URLs for layouts...

The BLT/N5FC variant at URL: <http://www.io.com/~n5fc/blt.htm>
Colorado QRP Club URL: <http://www.cqc.org/gallery/zm2tuner/index.htm>

There are plenty of links on the N5FC page to help you layout a repackaged BLT or ZM-2 -- with all the 'wires' coming out the back and the knobs and tuning LED on the front panel.

RE: what gets hot? The ZM-2 has several parallel sets of 100 ohm "tuning resistors" that get very warm during TUNE mode, and then cool to normal during normal operation. Keep these resistors away from any wire insulation that could melt, and make sure to keep them away from the bodies of the Polyvaricon tuning caps - they'll also melt !

Finally... a prototyping trick: consider your present ZM-2 enclosure to be "sacrificial" and make use of your existing box to drill holes at will. Mount the BNCs, etc where ever you like and try it out in the field. Make changes as needed, and when it's "dialed in", THEN spend the \$\$ on the nice new box and package it up for real :)!

Have fun w/ repackaging -- & let us know what you invent :)!

Best,

Conrad Weiss
NN6CW

From: Michael N4NMR[SMTP:bowerm@ix.netcom.com]
Sent: Sunday, June 02, 2002 8:46 PM
To: Low Power Amateur Radio Discussion
Subject: ZM-2 enclosures

Hi, folks,

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Thanks in advance.

Michael N4NMR

Date: Mon, 03 Jun 2002 10:56:10 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: ve3ab@mail.mondenet.com, qrp-1@Lehigh.EDU
Subject: [127656] Re: Etching Solution PCBs..how to handle it?
Message-ID: <F213j2pxNCUqob36bJX000100ac@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: ve3ab@mail.mondenet.com
>Reply-To: ve3ab@mail.mondenet.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Etching Solution PCBs..how to handle it?
>Date: Sun, 2 Jun 2002 20:34:59 +0000
>

>Ive read and kept copies of recent posts re: bubble stone for etching
>solution. Im curious..how many times can you use the solution? ie..
>for 1 or 2 boards or say 10 boards?..Eventually..the ferric chloride
>will become saturated and will lose its ability.

It depends on the amount of etchant and the size of the boards, of course. I only use a small amount at a time with hand agitation, and use it until it becomes dark green and the etching time becomes excessive - say 50% longer than with fresh.

What do you do with
>the etchant? >>i live in the country so im not on city services.
>I wonder ..could i just bury it somewhere?

I just pour it down the lavatory. I suppose it should be neutralised (with sodium carbonate) first, as water companies don't like acidic waste, but the quantities are very small.

>Another question..Ive used the resist ink pens for the few projects
>ive done so far. In a 73 magazine article (not too long ago) a chap
>uses nail polish..is there a significant advantage?72 Earl VE3AB

Nail varnish works just as well, if not better, and you can filch it from the XYL. Cellulose paint works well, also, and is very cheap.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Mon, 3 Jun 2002 07:42:09 -0400
From: K1VP <k1vp@grizzly.com>
To: wd8civ@worldnet.att.net
Cc: qrp-1@Lehigh.EDU
Subject: [127657] Re: fishing for opinions
Message-ID: <20020603074209.3734d35c.k1vp@grizzly.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

On Sun, 02 Jun 2002 22:47:19 -0400
David Hinerman <wd8civ@worldnet.att.net> wrote:

> This particular beast - a Dell Latitude XPi CD - seems pretty "vanilla." It
> has a 2.1GB hard drive (IDE I believe), 48MB RAM, ESS sound system (similar
> to my ancient dirt-cheap ISA sound card, which my equally ancient Slackware
> Linux does okay with), CD-ROM, floppy, SGVA screen, and I've just added a
> PCMCIA modem (courtesy of a dealer at the Rochester hamfest).
>
> The part I'm not sure about is the IrDA port.

If you Google for laptops and Linux, there is a website that list many, many
laptops with reports on how they work with Linux and how to config them. I don't
have the URL handy, but it is a very helpful site and I'm sure info on the Dell
will be there. The IrDA might be a problem. Another issue would be the
performance if running KDE or GNOME.

Ed Lawson
K1VP

Date: Mon, 03 Jun 2002 07:52:58 -0400
From: W2AGN <w2agn@w2agn.net>
To: qrp-1@lehigh.edu, k1qrp@knightlites.org, njqrp@njqrp.org,

soc@mailman.qth.net
Subject: [127658] N4JS
Message-ID: <0206030752580C.02799@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Just wanted to advise QRPers that might be interested. The callsign N4JS, which I held for 25+ years, will be available on August 8, 2002. (end of 2-year waiting period).

Sure would like to see the old call go to a QRPer.

--

/ \ / \ / \ / \ / \ John L. Sielke w2agn@w2agn.net
(W)(2)(A)(G)(N) http://www.w2agn.net
_ / _ / _ / _ / _ / NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
EX-N4JS, W4MPC, W7JEF, K3HLU G-QRP #9544 NorCal CQC AKQRP QCWA FISTS #2781
SOC, ARLHS, 00TC Zombie #576 Elecraft K2 #0023 K1 #146, 1151

Date: Mon, 03 Jun 2002 08:03:02 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [127659] Re: Etching Solution PCBs..how to handle it?
Message-ID: <3CFB5AF6.23F5073D@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Leon Heller wrote:

> > What do you do with the etchant?

> I just pour it down the lavatory. I suppose it should be neutralised (with
> sodium carbonate) first, as water companies don't like acidic waste, but the
> quantities are very small.

Interesting concept. I guess we shouldn't really mind if others treat the one resource we love so much (that little bit of ether we get to play in) with the same respect. I mean the quantities of radiation from PLC devices and RF emitting ID badges are very small compared to what most hams feed their antennas.

Is the ether flushable?

73s,
--Alex

Date: Mon, 3 Jun 2002 06:40:06 -0600
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [127660] Re: Want to buy Super Antennas MP-1 TRPD Tripod Base
Message-ID: <011701c20afb\$cac8c6e0\$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Got a tripod coming, and in the best possible way. I'll be going a little "shade tree" radio-mechanic work for another individual. My payment, the Super Antenna tripod! I just love the barter and exchange aspect of this hobby.

73, Rod N0RC

----- Original Message -----
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, June 02, 2002 7:09 AM
Subject: Want to buy Super Antennas MP-1 TRPD Tripod Base

> Before I order on thought I'd see if anybody has on the wish to
> sell, let me know.

Date: Mon, 03 Jun 2002 08:42:05 -0400
From: Ed Lawson <k1vp@grizzly.com>
To: k1vp@grizzly.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [127661] Re: fishing for opinions
Message-ID: <3CFB641D.2000606@grizzly.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

K1VP wrote:

>
>
> I don't have the URL handy,
>
Found it! <http://www.linux-laptop.net>

Dell Xpi are mentioned in the Dell listing.

Ed Lawson
K1VP

Date: Mon, 3 Jun 2002 05:47:54 -0700
From: "johngabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [127662] FS
Message-ID: <003d01c20afc\$e1f150c0\$6b811c0c@juanita>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I still have the Nor Cal 20 for sale, works great. \$100. plus
shipping...thanks 72 John...KF70M

Date: Mon, 3 Jun 2002 08:53:50 -0400
From: "Tom" <kf4yyd@adelphia.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [127663] Looking for old handbook
Message-ID: <005b01c20afd\$b5968760\$9865fea9@yourze8cxvr8tt>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,
Is there anyone on the list who has an old ARRL handbook, mid fifties

vintage, that they would like to get rid of?

Thanks,
Tom kf4yyd

Date: Mon, 3 Jun 2002 09:47:28 -0400
From: Tim ORourke <TORourke@KaiserFT.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [127664] Open air feeder impedance
Message-ID: <0514B74864ACD511934400508BBB5E3415F756@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I need some assistance on calculating a 1/4 wave feeder assembly. Desired impedance is 25 ohm. I would like to use 1" square tube with 1/8" wall. I can calculate the impedance for a 7/8 Id sleeve and a 1/2" OD center conductor but wondering abt fudge factor for square outer conductor verses round outer conductor. Any thoughts? First thought hr is to ignore it and keep going.

BTW I need to use the square tube for this project, details too long for list.

Tim KG4CHX

Date: Mon, 3 Jun 2002 09:32:54 -0700
From: "=?iso-8859-1?B?TthCUw==?=" <n0bs@msn.com>
To: <qrp-l@lehigh.edu>
Subject: [127665] QRP+ PSK
Message-ID: <NFB BKGF DGLNKCKOKBBOCEE AJCOAA.n0bs@msn.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The local tailgate swapfest this past weekend yielded a like new Index Labs QRP+ with the companion power supply / noise bridge / tuner with a new battery and a chrome Bencher paddle at what seems like a steal deal. Made a few Q's with it on cw and ssb and seems to work perfectly, and is a very nice rig. I was thinking about dedicating this as a PSK rig and was

wondering what experiences or hints other owners
of this rig might share before I fire it up
on PSK?
Tom Moll N0BS, Mpls.

Date: Mon, 03 Jun 2002 16:46:18 +0200
From: "Ingo, DK3RED" <dk3red@t-online.de>
To: TORourke@KaiserFT.com, QRP-L <qrp-l@lehigh.edu>
Subject: [127666] Re: Open air feeder impedance
Message-ID: <3CFB813A.1E439546@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

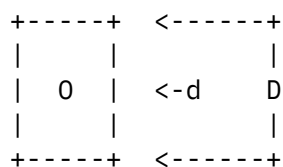
Hello Tim,

> I need some assistance on calculating a 1/4 wave feeder assembly. Desired
> impedance is 25 ohm. I would like to use 1" square tube with 1/8" wall. I
> can calculate the impedance for a 7/8 Id sleeve and a 1/2" OD center
> conductor but wondering abt fudge factor for square outer conductor verses
> round outer conductor. Any thoughts? First thought hr is to ignore it and
> keep going.

formula for a round wire in a square tube
(source: "Rothammels Antennenbuch")

$$Z = 60 \ln \left(1.07 \frac{D}{d} \right) \quad \text{note: } \frac{D}{d} \text{ greater than } 1.25$$

Z in ohms



d = outer diameter of the round wire
D = inner diameter of the square tube

--
72/73 de Ingo, DK3RED Don't forget: the fun is the power!
dk3red@t-online.de <http://www.t-online.de/~dk3red>
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

Date: Mon, 3 Jun 2002 11:09:42 -0400
From: dmaliniak@penton.com
To: qrp-l@lehigh.edu
Cc: njqrp@njqrp.org
Subject: [127667] Help with mystery parts?
Message-ID: <0F5F38E894.A0E6C280-0N85256BCD.00526BDB@penton.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Hello all:

Some hamfest scrounging on Saturday (BARA fest in Bergen County, NJ) turned up some items that are mysterious... at least to me.

I bought a drawerful of Zener diodes very cheap, which was a good find. Amongst them were several parts labeled thusly:

Z100B
Z150B
Z200B
Z300B

I can't find any references that help me with these. Can anyone shed any light?

I also picked up three NE602s, which was another nice find. In with them was one 8-pin DIP labeled LN311. Another mystery.

Thanks in advance for any help...

72,
David, AD2A
Glen Rock, NJ

Date: Mon, 03 Jun 2002 10:32:24 -0500
From: Ken Hopper <khopper@uchicago.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [127668] New PSK-10 from SWL A.O.K. (commentary and opinion)
Message-ID: <3CFB8C08.7090807@uchicago.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

----- Original Message -----

Subject: New PSK-10 from SWL A.O.K. (commentary and opinion)

Date: Mon, 03 Jun 2002 10:27:57 -0500

From: Ken Hopper <khopper@uchicago.edu>

Reply-To: khopper@heliostat.uchicago.edu

Organization: The University of Chicago

To: khopper@heliostat.uchicago.edu

[disclaimer: I have no association with any vendor, mfg'r, or distributor. I have nothing to sell. This is my hobby. Comments below are unsolicited. Just sharing my experience with others who enjoy Ham Radio]

I built the new PSK-10 single board transceiver kit from Dave Benson this Saturday monring. Took about 5 hours. Could not have chosen a worse time to try 10M as the band seemed close to deceased all weekend.

I did manage one contact with HK1RRL.

The kit went together very easily. Dave has simplified the PSK circuitry by eliminating the PTT and substituting a VOX circuit for T/R. I had some difficulty getting my PC configured right, but once setup properly it worked FB. I have a sort of feedback problem with my laptop audio that I hope Dave will help me figure out.

The output of the new final is really quite good. I was able to see 2W with initial tuning and 4W with tweaking and more audio drive. I was not able to get an IMD reading at idle due to the band condx. I look forward to hearing that IMD is excellent from this fine little rig. The RX is "H*O*T" as are all the PSK series. I am not an engineer so I am making a very subjective judgment that it seemed to be as good as my K2 on 10M and considerably better than my other "main rig" :-)

The new cases are gray with contrasting black front (prepunched) and rear panels. Really sharp looking. Alignment couldn't be easier. Just twiddle one can for RX sensitivity and then two caps for VFO. The driver and final are easily peaked looking at the SWR meter.

The instruction manual is typically a BENSON achievement. Excellent illustrations and clear text. Dave even packaged the little (tiny) monolithic caps in a plastic liner with the caps already sorted into separate pockets. Very nice for these tired old eyes. There are two surface mounted parts - both inductors and they tack down to the top of the PCB just fine. The PCB is plated through and so it is really easy to solder (and to UNSolder when you put two diodes in the wrong place :-). O.K. toroid-phobic builders, there are four toroids to wind. But Dave

made it painless. Three of them are magnet wire and only 11 and 12 turns. The final is "bifilar" but only has four turns. The illustration in the manual was clear as a bell. Unlike my PSK-20, the final never ran hot. I think Dave has a very nice new final design in the PSK-10.

Overall it gets a 5/5 from this ham. I congratulate Dave on another fine PSK kit. One that should be of great interest to those who might wish to hook up a simple CB style mag mount and give 10M a try on your lunch hour. When it is open, 10M PSK31 (around 28.120) is DX heaven.

Thanks Dave for the entertainment on Saturday as I built yet another super-duper Small Wonder Labs kit. Now what was that you said at Dayton about "the son of DSW" maybe a DSW-II? what's Dave got up his sleeve?

appreciatively,
dit dit
de ken n9vv
<http://www.n9vv.com>

Date: Mon, 03 Jun 2002 18:00:55 +0200
From: "Ingo, DK3RED" <dk3red@t-online.de>
To: Tim O'Rourke <TORourke@KaiserFT.com>, QRP-L <qrp-l@lehigh.edu>
Subject: [127669] Re: Open air feeder impedance
Message-ID: <3CFB92B7.E2BB47@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Tim,

> It seems like 60 is low but I will try.
> For round in round the number is 138.
> I wonder whu so much differance?
> It seems like it should be $1.07 \times D$ then still multiply by 138?
> I will let u know the results.

I have found your formula with the 138 in it in the ARRL antenna handbook. The formula with the 138 uses the "LOG" and the formula with the 60 uses the "LN". The "LN" is the logarithmic natural with 2,718 as basis instead of 10 by the logarithmic decimal (LOG). If you like only the "LOG" then use 138 instead of 60 and the formula will change to:

$$Z = 138 \log \left(1.07 \frac{D}{d} \right)$$

Try it and make a test i.e. with a "D/d" ratio = 50 .

$$Z = 138 \log \left(1.07 \frac{D}{d} \right) = 234 \text{ ohms}$$

$$Z = 60 \ln \left(1.07 \frac{D}{d} \right) = 234 \text{ ohms}$$

--

72/73 de Ingo, DK3RED Don't forget: the fun is the power!
 dk3red@t-online.de <http://www.t-online.de/~dk3red>
 DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

 Date: Sun, 2 Jun 2002 21:00:38 -0700
 From: "Doug Hendricks" <ki6ds@dph.dpol.net>
 To: <qrp-1@Lehigh.EDU>
 Subject: [127670] Lobstercon!! & Ft. Tuthill
 Message-ID: <01e501c20ab3\$3d072f60\$4a0b0d0a@dph.dpol.net>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit

Guys, I will be leaving this Friday morning for Lobstercon, which is being hosted by Rex Harper in Maine, July 5,6,7 and will then be traveling to Ft. Tuthill for the Az. ScQRPions annual bash the last weekend in July. Should be a blast. I am really looking forward to seeing all of you QRPers who can make either or both events. (Yes I know of at least 2 guys who are planning on going to both.) There are other QRP events going on this summer that I know of. Hamcon is this weekend in Dallas, Iowacon is next weekend in Sioux City I believe (hosted by Iowa QRP Club), and I think Austin has an event in August, but I can't remember the name of it. Anyway, the point is, get out and attend as many of these events as you can, as they are always fun, and you meet the nicest people there. Oh, and a teaser, Dave Benson is working on something special just for Lobstercon. I have seen it, and it is way cool. But you gotta be there to see it. 72, Doug

Date: Mon, 03 Jun 2002 18:21:53 +0200
From: "Ingo, DK3RED" <dk3red@t-online.de>
To: Tim O'Rourke <TO'Rourke@KaiserFT.com>, QRP-L <qrp-l@lehigh.edu>
Subject: [127671] Re: Open air feeder impedance
Message-ID: <3CFB97A1.67DE14C4@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Tim,

```
>                                D
> Z = 138 log (1.07 ---) = 234 ohms
>                                d
>
>                                D
> Z = 60 ln (1.07 ---) = 234 ohms
>                                d
```

Ups, SRI for the typos. Z is in both formulas 238 ohms.

--
72/73 de Ingo, DK3RED Don't forget: the fun is the power!
 dk3red@t-online.de <http://www.t-online.de/~dk3red>
 DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

Date: Mon, 3 Jun 2002 13:20:13 -0400
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <ki6ds@dph.dpol.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [127672] RE: Lobstercon!! & Ft. Tuthill
Message-ID: <000201c20b22\$ed2650a0\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does Doug have his dates mixed up? This is till June!

== Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
Doug Hendricks
Sent: Monday, June 03, 2002 12:01 AM

To: Low Power Amateur Radio Discussion
Subject: Lobstercon!! & Ft. Tuthill

Guys, I will be leaving this Friday morning for Lobstercon, which is being hosted by Rex Harper in Maine, July 5,6,7 and will then be traveling to Ft. Tuthill for the Az. ScQRPions annual bash the last weekend in July. Should be a blast. I am really looking forward to seeing all of you QRPers who can make either or both events. (Yes I know of at least 2 guys who are planning on going to both.) There are other QRP events going on this summer that I know of. Hamcon is this weekend in Dallas, Iowacon is next weekend in Sioux City I believe (hosted by Iowa QRP Club), and I think Austin has an event in August, but I can't remember the name of it. Anyway, the point is, get out and attend as many of these events as you can, as they are always fun, and you meet the nicest people there. Oh, and a teaser, Dave Benson is working on something special just for Lobstercon. I have seen it, and it is way cool. But you gotta be there to see it. 72, Doug

Date: Mon, 03 Jun 2002 13:29:27 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [127673] RE: Lobstercon!! & Ft. Tuthill
Message-ID: <5.1.0.14.1.20020603132802.00a62570@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Alex,

Not if he's bicycling. If he's hiking he probably should have left by now.

Dave

At 01:20 PM 6/3/2002 -0400, you wrote:
>Does Doug have his dates mixed up? This is till June!
>
>== Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
>
>-----Original Message-----
>From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
>Doug Hendricks
>Sent: Monday, June 03, 2002 12:01 AM
>To: Low Power Amateur Radio Discussion
>Subject: Lobstercon!! & Ft. Tuthill
>
>

>Guys, I will be leaving this Friday morning for Lobstercon, which is being
>hosted by Rex Harper in Maine, July 5,6,7 and will then be traveling to Ft.
>Tuthill for the Az. ScQRPions annual bash the last weekend in July. Should
>be a blast. I am really looking forward to seeing all of you QRPers who can
>make either or both events. (Yes I know of at least 2 guys who are planning
>on going to both.) There are other QRP events going on this summer that I
>know of. Hamcon is this weekend in Dallas, Iowacon is next weekend in Sioux
>City I believe (hosted by Iowa QRP Club), and I think Austin has an event in
>August, but I can't remember the name of it. Anyway, the point is, get out
>and attend as many of these events as you can, as they are always fun, and
>you meet the nicest people there. Oh, and a teaser, Dave Benson is working
>on something special just for Lobstercon. I have seen it, and it is way
>cool. But you gotta be there to see it. 72, Doug

"You can fool some of the people all of the time. That's enough to make a
living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Sun, 2 Jun 2002 22:27:48 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <ai2q@adelphia.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [127674] Re: Lobstercon!! & Ft. Tuthill
Message-ID: <001401c20abf\$6a4a9820\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No, not at all Alex, it is a loooooong way from California to Maine, grin.
I will be at Lobstercon on July 5, 6, 7. 72, Doug

----- Original Message -----

From: "AI2Q Alex" <ai2q@adelphia.net>
To: <ki6ds@dph.dpol.net>; "'Low Power Amateur Radio Discussion'"
<qrp-l@Lehigh.EDU>
Sent: Monday, June 03, 2002 10:20 AM
Subject: RE: Lobstercon!! & Ft. Tuthill

> Does Doug have his dates mixed up? This is till June!
>

> == Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
>
> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Doug Hendricks
> Sent: Monday, June 03, 2002 12:01 AM
> To: Low Power Amateur Radio Discussion
> Subject: Lobstercon!! & Ft. Tuthill
>
>
> Guys, I will be leaving this Friday morning for Lobstercon, which is being
> hosted by Rex Harper in Maine, July 5,6,7 and will then be traveling to
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> Tuthill for the Az. ScQRPions annual bash the last weekend in July.
Should
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Sioux
> City I believe (hosted by Iowa QRP Club), and I think Austin has an event
in
> August, but I can't remember the name of it. Anyway, the point is, get
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> and attend as many of these events as you can, as they are always fun, and
> you meet the nicest people there. Oh, and a teaser, Dave Benson is
working
> on something special just for Lobstercon. I have seen it, and it is way
> cool. But you gotta be there to see it. 72, Doug

Date: Mon, 3 Jun 2002 10:57:10 -0700
From: "johngabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [127675] Opinion?
Message-ID: <009b01c20b28\$2b4f7460\$6b811c0c@juanita>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Not that I'm disappointed, but i've had my trusty Nor Cal-20 for sale for
three days on the list, and no one seems the slightest bit interested...Am I
asking too much for this great little rig? (\$100.00) Opinions

appreciated...Thanks 72...John...KF7OM

Date: Mon, 3 Jun 2002 13:58:23 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: Mike Yetsko <myetsko@insydesw.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [127676] Re: PCB Etching Bubble Bath
Message-ID: <20020603133120.W41439-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Mike,

Thank you very much for your comments and new ideas.

First, Let me say to all who might have read my previous message, Whenever working with ANY KIND OF ACID or Potentially Dangerous Chemicals or Equipment, MAKE ABSOLUTELY SURE THAT YOU UNDERSTAND AND FOLLOW ALL OF THE APPROPRIATE SAFETY CAUTIONS FOR THE MATERIALS AND OR EQUIPMENT.

IF YOU HAVE ANY DOUBT WHATSOEVER, READ THE MANUAL AND/OR ASK SOMEONE WHO KNOWS!

The last thing we want to hear is that someone here took our advice and got injured or worse.

ALWAYS WEAR EYE PROTECTION WHEN DOING ANY HOMEBREWING OF ANY KIND!

I would like to note that Leon mentioned using a Microwave Oven to Preheat his Chemical Etchant and Adding Hot Water from the Tea Kettle to the solution. I will not say that i have never done anything like this, however I do wish to point out some potential Dangers to both points.

I can't seem to recall which is the proper method, Adding the Acid to the Water, or Adding the Water to the Acid. I assure you that it DOES MAKE A DIFFERENCE! One is standard and approved procedure, the other is a very Unsafe and Dangerous Practice.

I believe that the correct choice is add water to Acid, but when in doubt, go check the books. :^}

I do recall a rather vivid Demonstration in Metal Shop in High School.

Mike's recommendation of getting a Pressure Regulator is also very Good.

Actually, when i mentioned the Air Tank Idea, I was referring to a particular air tank that I have. I bought several of them from Harbor Freight last year and re-sold them to friends for their cars. My Barber, Don't Laugh (I have lots of hair at the back of the neck and on sideburns), asked me to order a few for him and his shop mates.

It was a Round Red Tank with air hose, valves and Pressure Guage.

It is intended to be filled at the local Petrol Station/Garage and carried in the back of your vehicle to re-fill a low tire as needed.

It can be used for a number of small Air Driven Devices. The Aquarium Bubbler is just one simple usage.

It is nothing more than an "AIR STORAGE TANK" with the appropriate guage and valves.

As I said, you could make an adapter to use a "SPARE TIRE". BUT YOU MUST, also consider that you can not get more than say #50 of pressure in the tire. Maybe some types can take more safely, but I DO NOT RECOMMEND THAT.

Mike is Correct, in suggesting the addition of a proper regulator and Valves.

I was also just thinking that some of the "OLD STYLE" PROPANE TANKS, might be modified for use as "AIR STORAGE" Tanks. They have a New Valve on the New Tanks, and will STOP Refilling the OLD types WITH propane.

MAYBE THIS air tank conversion WILL BE A PRACTICAL REUSE for thos old tanks? Comments appreciated.

I must QRT now and do some work for pay, I will look forward to new ideas and tips from the Group later tonight.

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.

Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, Donations Accepted.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Mon, 3 Jun 2002 16:25:04 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'dk3red@t-online.de'" <dk3red@t-online.de>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [127677] RE: Open air feeder impedance
Message-ID: <125490A005E3D3118C9C00805FC743CC040F3F6B@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I believe that there is a minor typo in the post, at least in US English.
The base for ln is 2.718, not 2,718. Or is this one of those 2,7k vs 2.7k
resistor things? (I tell ya; I think that if the British can't learn to do
our language right, they need to get one of their own.

Also, if memory serves, many of the Basic variants return ln for the log
function. In quick Basic, for example, x = LOG(10) sets X to 2.303 instead
of 1. I solve this in my programming by always dividing my LOG(x) results
by LOG(10). If the LOG function returns LOG10, then LOG(10)=1 and nothing
is changes. If it returns ln(X), then LOG(10) returns ln(10) and the
resultant answer is in LOG10.

Man, that is confusing even to me, but I think it gets the idea across. :-)

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111

Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----

> From: Ingo, DK3RED [mailto:dk3red@t-online.de]

> Sent: Monday, June 03, 2002 12:01 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: Open air feeder impedance

>

>

> Hello Tim,

>

> > It seems like 60 is low but I will try.

> > For round in round the number is 138.

> > I wonder whu so much differance?

> > It seems like it should be $1.07 \times D$ then still multiply by 138?

> > I will let u know the results.

>

> I have found your formula with the 138 in it in the ARRL

> antenna handbook.

> The formula with the 138 uses the "LOG" and the formula with

> the 60 uses

> the "LN". The "LN" is the logarithmic natural with 2,718 as

> basis instead

> of 10 by the logarithmic decimal (LOG). If you like only the

> "LOG" then

> use 138 instead of 60 and the formula will change to:

>

$$\begin{aligned} > & \qquad \qquad \qquad D \\ > Z &= 138 \log \left(1.07 \frac{D}{d} \right) \end{aligned}$$

>

> Try it and make a test i.e. with a "D/d" ratio = 50 .

>

$$\begin{aligned} > & \qquad \qquad \qquad D \\ > Z &= 138 \log \left(1.07 \frac{D}{d} \right) = 234 \text{ ohms} \end{aligned}$$

>

$$\begin{aligned} > & \qquad \qquad \qquad D \\ > Z &= 60 \ln \left(1.07 \frac{D}{d} \right) = 234 \text{ ohms} \end{aligned}$$

>

> --

> 72/73 de Ingo, DK3RED Don't forget: the fun is the power!

> dk3red@t-online.de <http://www.t-online.de/~dk3red>

> DL-QRP-AG #824 <http://www.dl-qrp-ag.de>
>

Date: Tue, 4 Jun 2002 00:08:29 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: <w2agn@w2agn.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [127678] Re: N4JS
Message-ID: <007901c20b3d\$7358b860\$59e522c3@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dear OM John!
Believe me, I be very glad to become a new holder of your old call :-) !
The best wishes!
72! de RV3GM/QRP
Oleg V. Borodin
My home at: www.qsl.net/rv3gm/index.html
QRP-ARCI, G-QRP, QRPp-I, QRP-Master etc...

> Just wanted to advise QRPers that might be interested. The callsign N4JS,
> which I held for 25+ years, will be available on August 8, 2002. (end of
> 2-year waiting period).

>
> Sure would like to see the old call go to a QRPer.

>
> --

>
> /_ \ /_ \ /_ \ /_ \ /_ \ John L. Sielke w2agn@w2agn.net
> (W)(2)(A)(G)(N) <http://www.w2agn.net>
> _ / _ / _ / _ / _ / NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
> EX-N4JS, W4MPC, W7JEF, K3HLU G-QRP #9544 NorCal CQC AKQRP QCWA FISTS
> #2781
> SOC, ARLHS, OOTC Zombie #576 Elecraft K2 #0023 K1 #146, 1151
>

Date: Tue, 4 Jun 2002 00:28:41 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [127679] Design of NorCal-20
Message-ID: <007a01c20b3d\$74b932c0\$59e522c3@lipetsk.ru>

MIME-Version: 1.0
Content-Type: text/plain;
charset="koi8-r"
Content-Transfer-Encoding: 7bit

Dear friends!

I want to make a good view for my NC-20 builded of kit with aluminium case.
I wonder for any color pictures of this trcvr. Does anybody have a photos
with good views NC20?

Thanks!

72! de RV3GM/QRP (K092so)

Oleg V. Borodin, Lipetsk, Russia

My home at: www.qsl.net/rv3gm/index.html

QRP-ARCI, G-QRP, QRPp-I, QRP-Master etc...

Date: Mon, 03 Jun 2002 16:36:15 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [127680] RE: Open air feeder impedance
Message-ID: <5.1.0.14.1.20020603162748.00a77e80@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:25 PM 6/3/2002 -0400, you wrote:

>I believe that there is a minor typo in the post, at least in US English.
>The base for ln is 2.718, not 2,718. Or is this one of those 2,7k vs 2.7k
>resistor things? (I tell ya; I think that if the British can't learn to do
>our language right, they need to get one of their own.

Ed,

I think the original post was using the European radix symbol (comma)
instead of being off by a factor of 1000.

>Also, if memory serves, many of the Basic variants return ln for the log
>function. In quick Basic, for example, x = LOG(10) sets X to 2.303 instead
>of 1.

This is, I think, common to many programming languages. The only place I've
seen ln(x) vs. log(x) is on a calculator keyboard. My Turbo C run-time
library manual lists log() and log10(), which use e and 10 as the base,
respectively.

> I solve this in my programming by always dividing my LOG(x) results
>by LOG(10). If the LOG function returns LOG10, then LOG(10)=1 and nothing

>is changes. If it returns $\ln(X)$, then $\text{LOG}(10)$ returns $\ln(10)$ and the
>resultant answer is in $\text{LOG}10$.

That's a neat trick. I'll have to remember that one.

>Man, that is confusing even to me, but I think it gets the idea across. :-)

Care to take on trigonometry? Degrees vs radians gets me every time.

Dave

P.S. Did you ever unload those Tek modules? D.

"You can fool some of the people all of the time. That's enough to make a
living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 3 Jun 2002 17:40:47 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'WD8CIV@worldnet.att.net'" <WD8CIV@worldnet.att.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [127681] RE: Open air feeder impedance
Message-ID: <125490A005E3D3118C9C00805FC743CC040F3F72@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Yes, I did think it was one of those European comma things. :-)

And as to the Tek modules, I still have quite a few of them. I have been
bringing them to flea markets and selling them off at \$10 each or two for
\$10. :-)

I just picked up a shootpot full of tubes, so if anyone has a need for a
particular tube, let me know. I will sell them for \$1 each, or two for \$1,
plus shipping. Most of them are old TV tubes, so if anyone needs a 24JE6 or
1B3, I got 'em. No transmitting tubes in the lot. I will try to get a list

together over the coming few weeks.

I am also in the process of parting out about 30 Tektronix 500 series scopes, so CRTs, transformers and what not are all to be had at bargain prices. (Pay whatever you want, just keep in mind that I had to take the time to yank the parts out of the scopes. The scopes are also available for \$10 each or two for \$10, pickup in Burlington CT only. For that matter, because they have been outside, albeit under a tarp, I will make it the same deal -- get what you want and pay what your conscience tells you is right. They are a wealth of parts, knobs, trimmer caps, switches, etc.

The only thing I want to do with the scopes is yank out all the tubes; at 50 cents each, I can get more than the scopes are worth.

If I don't get anyone to take the scopes and modules, a bit at a time, they are being turned into piles of knobs and other parts. I expect I can bring this fine stuff to a hamfest and sell it for a couple of dollars a pound! :-) Those little red Tektronix knobs are lovely!

Any and all proceeds from the sale of W1RFI junk goes to the ARRL Lab test equipment fund!

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----

> From: David Hinerman [mailto:WD8CIV@worldnet.att.net]

> Sent: Monday, June 03, 2002 4:36 PM

> To: Low Power Amateur Radio Discussion

> Subject: RE: Open air feeder impedance

>

>

> At 04:25 PM 6/3/2002 -0400, you wrote:

> >I believe that there is a minor typo in the post, at least
> in US English.

> >The base for ln is 2.718, not 2,718. Or is this one of
> those 2,7k vs 2.7k

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> "You can fool some of the people all of the time. That's
> enough to make a
> living." - Lance Burton
> -----

> Dave Hinerman
> WD8CIV@worldnet.att.net
>

Date: Mon, 3 Jun 2002 17:01:16 -0500
From: "Pederson, Glenn" <gpeder@elnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [127682] Re: PCB Etching Bubble Bath
Message-ID: <3CFBA0DC.5208.19897CCA@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

For some reason or another I remember from my junior high school science class the following ditty:

"Do as you oughta, add acid to wata"

Glenn Pederson, WB9QIQ
gpeder@elnet.com

Date: Mon, 03 Jun 2002 17:10:59 -0500
From: Jim Crooke <crooke@prodigy.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [127683] Re: PCB Etching Bubble Bath
Message-ID: <5.1.0.14.0.20020603170616.00a7a4c0@pop3.prodigy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:01 PM 6/3/2002 -0500, Pederson, Glenn wrote:
>For some reason or another I remember from my junior high school
>science class the following ditty:
>
>"Do as you oughta, add acid to wata"
>

Another way to remember, at least for those that are familiar with A&W Root Beer, is Acid to Water.

If you reverse the process, the water will likely boil and splatter.

73 es oo de Jim KJ0C
Healer of Brachycephalics and other fine looking creatures
in Springfield, MO
FP # -108 and semi-official veterinarian of the Flying Pigs QRP Club
PITA #2 SOC #37

Date: Mon, 3 Jun 2002 18:09:55 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>, "NoVAQRP" <NoVaQRP@topica.com>,
"NJQRP" <njqrp@njqrp.org>,
Subject: [127684] Atlanticon Photo Album now online
Message-ID: <000501c20b4b\$9f285af0\$cbca9cce@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We've now posted a large image collection acquired from the Atlanticon 2002
QRP Forum held this past April in Baltimore, MD.

You can see this photo album of 134 pics at
<http://www.njqrp.org/atlanticon/photos.html>

There are some real nice images of popular homebrew projects and equipment,
and of some QRP luminaries too ... hope you find this collection enjoyable!

73, George N2APB
n2apb@amsat.org

PS: Many have been asking for the posting of these images ... backed up
personal time keep this action at bay for a while, but it's now broken free.
And thanks to contributing photographers Jan Medley, N0QT and Jim Francoeur,
KC1FB for their efforts and files sent my way.

End of QRP-L Digest 2575

